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 MOCHIZUKI AKIO; YOSHIZAWA EIICHI

WPI / DERWENT

TI - Crossed type dipole antenna for artificial satellite - incorporates reflective elements made up of conducting material arranged at end part of antenna support strut which reflect electromagnetic waves to antenna front part
 AB - J07094940 The crossed type dipole antenna incorporates two sets of dipole elements (1a-1d) which are arranged mutually perpendicular to the vertical surface of a set of antenna struts (2a-2c). The dipole elements emit electromagnetic waves towards the end part of antenna support strut (2c). At the end part of the antenna support strut two sets of reflective elements (5a-5d) consisting of conducting material are arranged. The reflective elements reflect the electromagnetic waves from the dipole elements to the front of antenna. A quarter wave length type choke element (7) is arranged between the dipole elements and the root part of the antenna support strut.
 - ADVANTAGE - Improves emission gain and directivity. Prevents electromagnetic wave emission to back of antenna by providing quarter wave length choke element.
 - (Dwg.3/7)
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 TI - CROSS DIPOLE ANTENNA
 AB - PURPOSE: To improve the omnidirectivity of radiation gain of a cross dipole antenna and to reduce the radiation of a reversely turned circularly polarized wave to the side and rear directions of the antenna.

- CONSTITUTION: Two half-wavelength dipole elements respectively consisting of dipole elements 1a-1d arranged in the vertical face of an antenna supporting column 2A radiate a positively turned circularly polarized wave in a direction to the top part of the column 2A (the front of the antenna). Reflection elements consisting of conductor elements 5a-5d are arranged on the top part of the column 2A to reflect a radio wave applied to the front of the antenna to the side direction of the antenna. A $\lambda/4$ wavelength type choke element is arranged between the elements 1a-1d and the bottom part of the column 2A to interrupt the radiation of radio waves mainly consisting of a reversely turned circularly polarized wave to the rear part of the antenna.
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